

Datasheet: MCA6186GA

BATCH NUMBER 64698309

Description:	MOUSE ANTI HUMAN C-REACTIVE PROTEIN
Specificity:	C-REACTIVE PROTEIN
Other names:	CRP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F01-1G4
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1.0 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen *E. coli* derived recombinant human full length C-Reactive Protein (Phe17-Pro224)

External Database

Links

UniProt:

[P02741](#) [Related reagents](#)

Entrez Gene:

[1401](#) CRP [Related reagents](#)

Synonyms

PTX1

Fusion Partners

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity

Mouse anti Human C-reactive protein antibody, clone F01-1G4 recognizes, C-reactive protein (CRP). CRP is a member of the pentaxin family of proteins which target and activate various stages of the complement system. CRP is known to exist in 2 states, either as a monomer (mCRP) or as a pentamer (pCRP), where the pentamer is composed of 5 nearly identical subunits. The monomeric and pentameric forms have similar functions, but their relative abundance differs across various tissues. For example, pCRP is present in plasma, while mCRP is present mostly in the surface of damaged cells and platelets ([Wu et al. 2015](#)). In humans, levels of CRP increases 1,000-fold within 24 to 48 hours of infection, inflammation or tissue damage ([Black et al. 2004](#)).

In response to infection or tissue damage Interleukin-6, Interleukin-1 beta or glucocorticoids induce hepatocyte production of CRP. Available CRP can then detect foreign invading microorganisms, by binding carbohydrate structures. CRP is also able to bind modified low density lipoproteins and cells undergoing cell death, to assist with phagocytosis and clearance mechanisms. This is directly co-ordinated via CRP and other pentaxin proteins to prevent excessive tissue damage and clearance of any injured tissue components.

This purified Mouse anti Human C-reactive protein antibody, clone F01-1G4 (MCA6186GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human C-reactive protein antibody, clone F03-2C7 ([MCA6187B](#)) as the detection antibody.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6186GA>

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Recommended Useful Reagents

[MOUSE ANTI HUMAN C-REACTIVE PROTEIN:Biotin \(MCA6187B\)](#)

ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN C-REACTIVE PROTEIN:Biotin \(MCA6187B\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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